

The diagram illustrates the PathSpeed Extend Workflow architecture, showing the integration of various medical imaging modalities and workstations into a central network.

**Central Components:**

- PACSBroker (9):** The central hub connecting the RIS, PB, and PACS.
- PB (11):** The PathSpeed Broker, acting as a central database or storage component.
- PACS (6):** The Picture Archiving and Communication System, responsible for storing and retrieving medical images.

**Workstations and Modality Connections:**

- RIS WorkStation:** Includes a monitor (54), keyboard (50), and mouse (56). It is connected to the RIS (8) and the PACSBroker (9).
- PACS WorkStation:** Consists of multiple monitors (54) and a keyboard (50). It is connected to the PACSBroker (9) and the PACS (6).
- Modality Connections:** The PACSBroker (9) is connected to three modalities: **Modality:MR**, **Modality:CT**, and **Modality:DR**. These modalities are connected to the PB (11) and the PACS (6).

**External Connections:**

- DICOM Gateway:** A computer system (tower and monitor) that connects the PACS (6) to an external network (10).
- External Network (10):** The network that connects the PACS (6) to the external world.

**PathSpeed Extend Workflow:** The overall system architecture, showing the integration of the RIS, PACSBroker, PB, PACS, and various modalities into a single workflow.

Figure 1

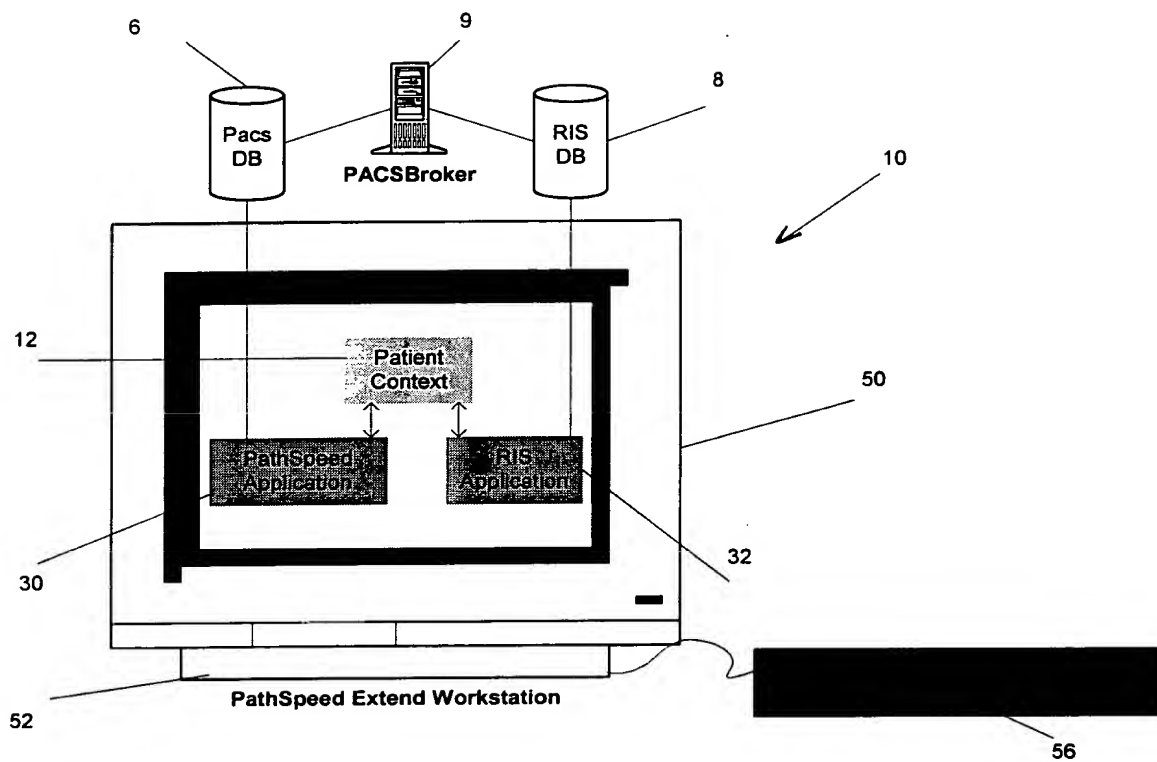
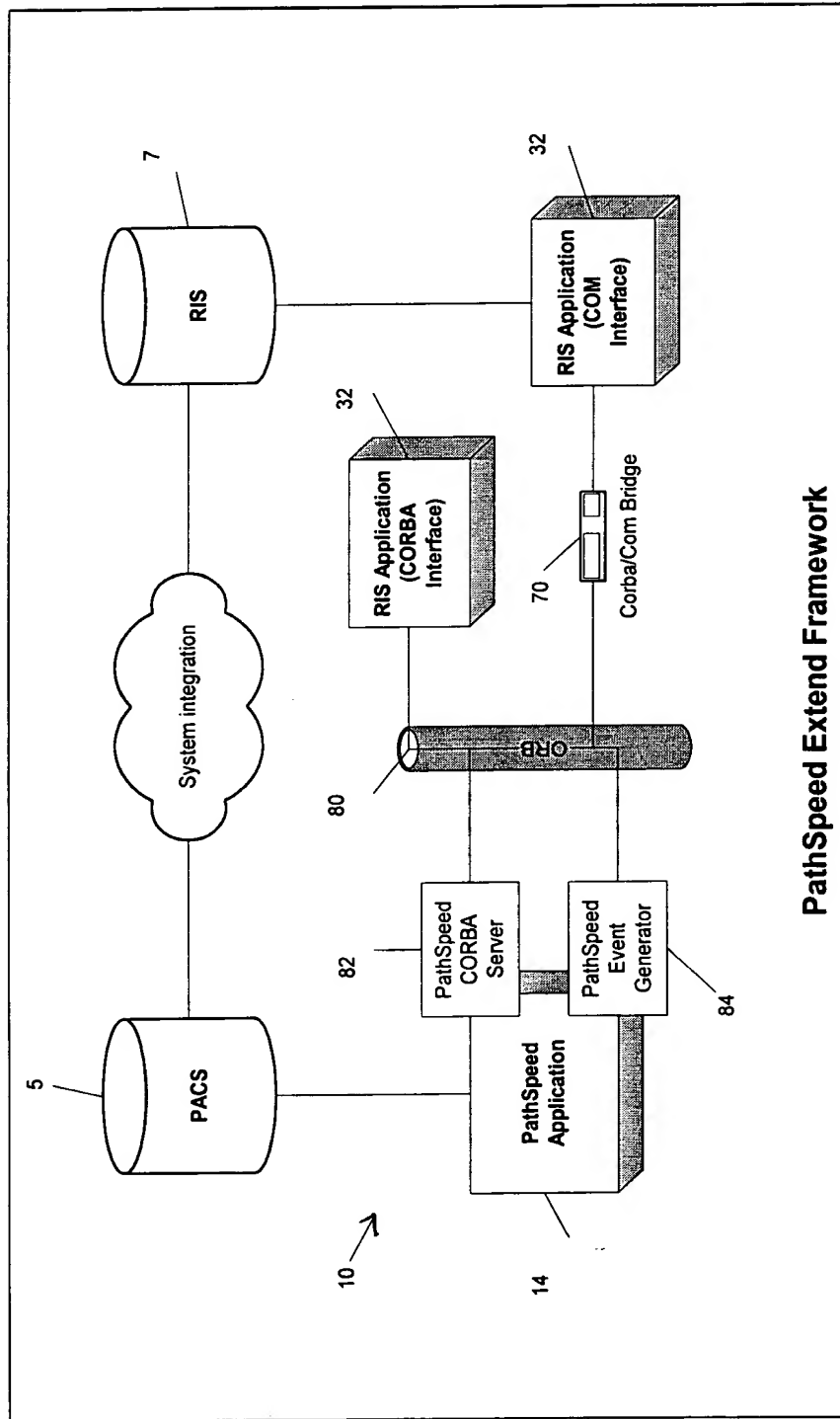


Figure 2



PathSpeed Extend Framework

Figure 3

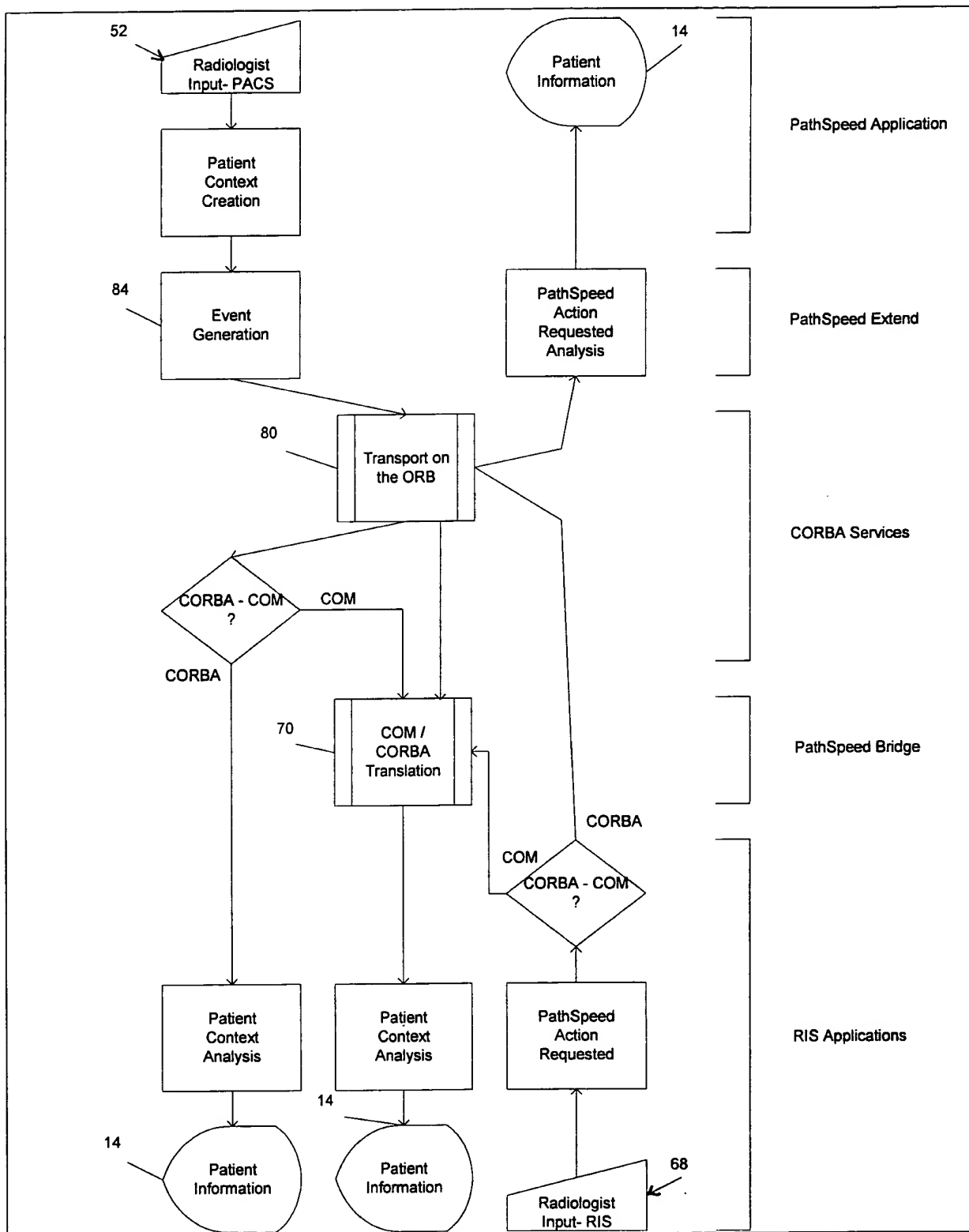


Figure 4

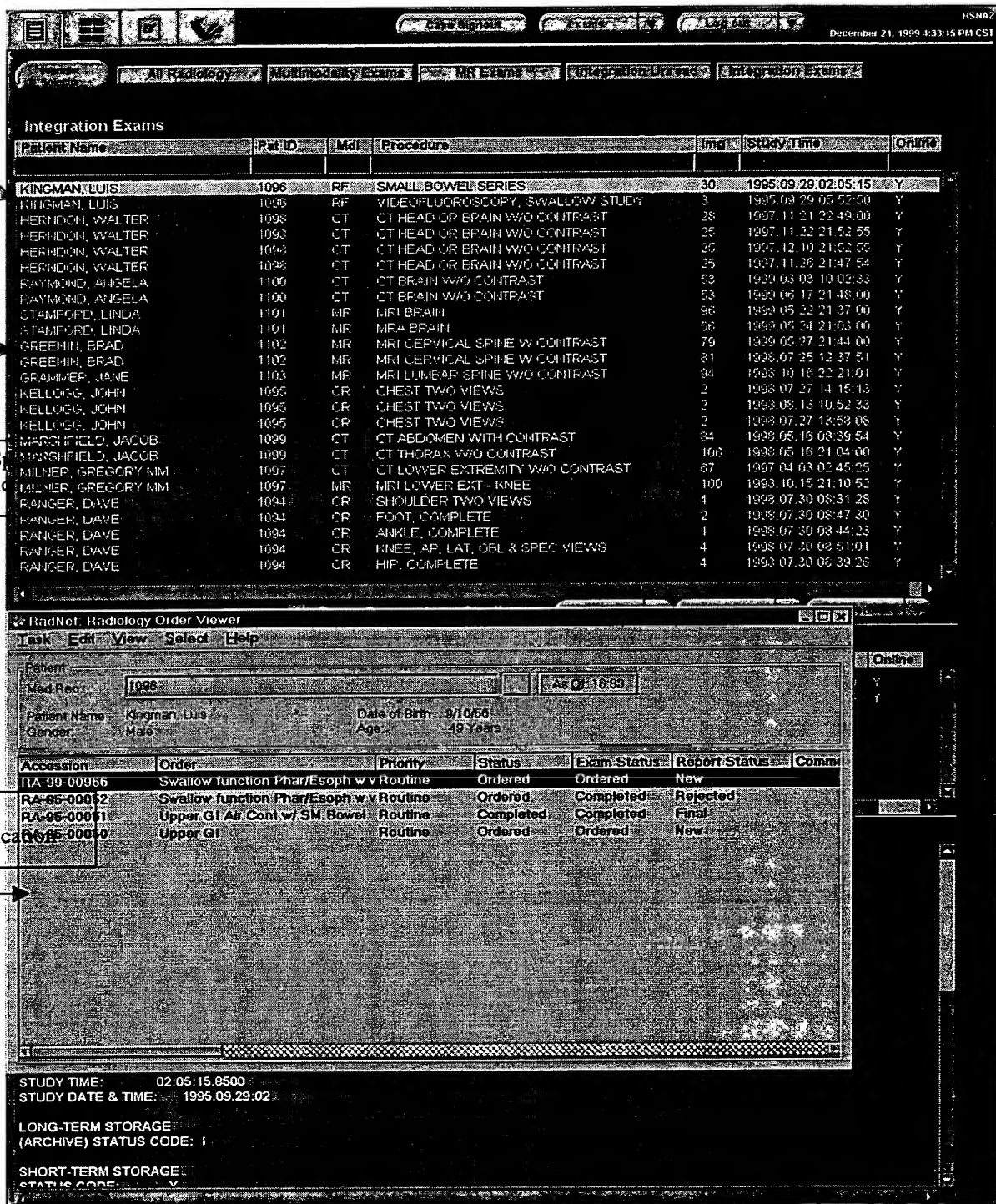


Figure 5

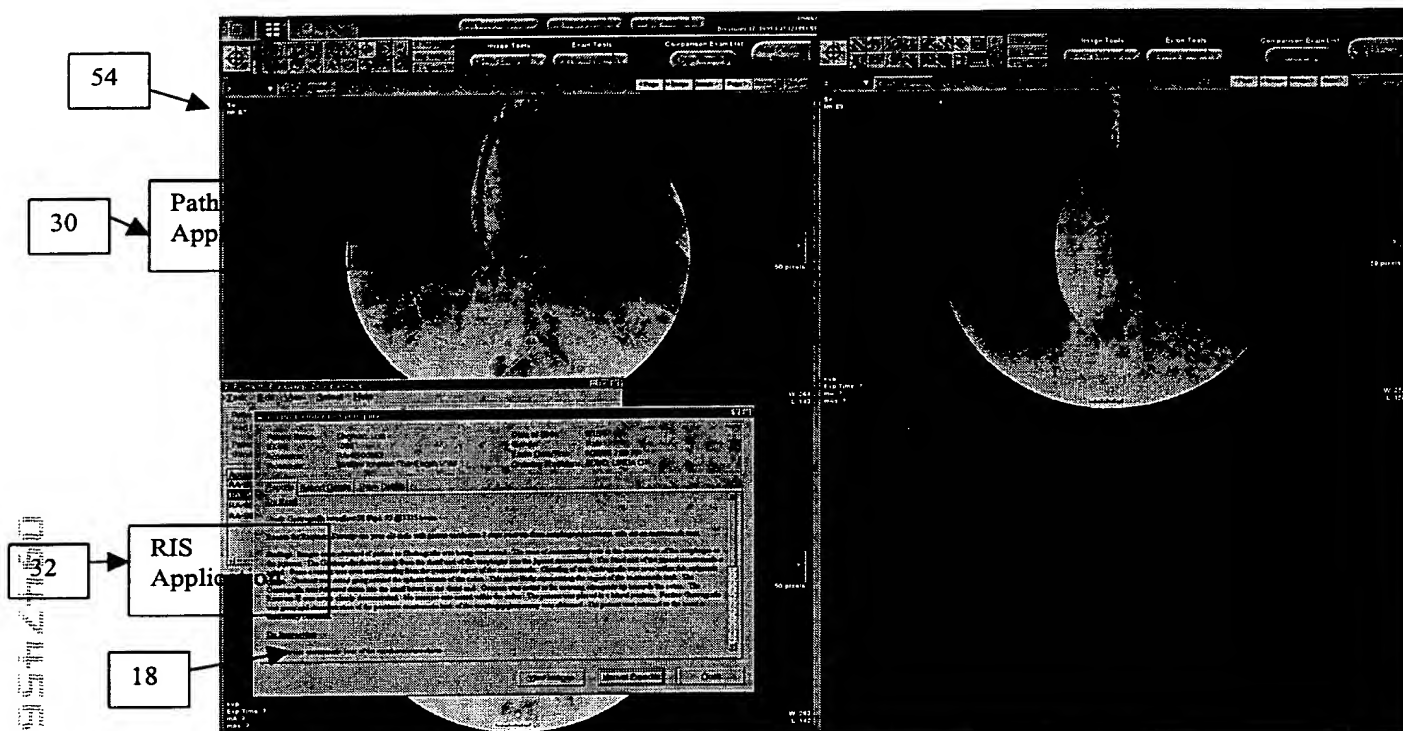


Figure 6